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1 R2-E: cross layer designs and protocols symposium: A visual tool for trellis construction and Viterbi decoder of augmented RAC array codes   ◼
Lami Kaya, Mohammad Al Qudah
July 2006 **Proceeding of the 2006 international conference on Communications and mobile computing IWCMC '06**
Publisher: ACM Press
Full text available: 📄 pdf(373.56 KB)   Additional Information: full citation, abstract, references, index terms

A software tool for constructing trellis diagram and tracing visually the Viterbi decoder of augmented twodimensional (2D) row and column (RAC) array codes has been designed and implemented. Augmentation technique of 2D RAC codes given here has been performed by utilizing parity-check positions. The augmentation process can be conducted on only row-parity check positions, or on both row and column positions. The tool provides an interface for introducing errors at specific array positions and th ...

Keywords: Viterbi decoding, array codes, row and column code, trellis decoding

2 Petri-net-based hypertext: document structure with browsing semantics   ◼
P. David Stotts, Richard Furuta
January 1989 **ACM Transactions on Information Systems (TOIS)**, Volume 7 Issue 1
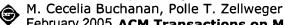**Publisher:** ACM Press
Full text available: 📄 pdf(2.19 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

We present a formal definition of the Trellis model of hypertext and describe an authoring and browsing prototype called &agr;Trellis that is based on the model. The Trellis model not only represents the relationships that tie individual pieces of information together into a document (i.e., the adjacencies), but specifies the browsing semantics to be associated with the hypertext as well (i.e., the manner in which the information is to be visited and presented). The model is based on Petri ...

3 Automatic temporal layout mechanisms revisited   ◼
M. Cecelia Buchanan, Polle T. Zellweger
February 2005 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 1 Issue 1
Publisher: ACM Press
Full text available: Additional Information: full citation, abstract, references, citings, index

📄 pdf(1.09 MB)   terms

A traditional static document has a spatial layout that specifies where objects in the document appear. Because multimedia documents incorporate time, they also require a temporal layout, or schedule, that specifies when events in the document occur. This article argues that multimedia document systems should provide mechanisms for automatically producing temporal layouts for documents. The major advantage of this approach is that it makes it easier for authors to create and modify multimedia do ...

Keywords: Multimedia documents, multimedia authoring, temporal formatting, temporal specification

4 Hyperdocuments as automata: verification of trace-based browsing properties by model checking
P. David Stotts, Richard Furuta, Cyrano Ruiz Cabarrus
January 1998 **ACM Transactions on Information Systems (TOIS)**, Volume 16 Issue 1
Publisher: ACM Press

Full text available: 📄 pdf(474.20 KB)   Additional Information: full citation, abstract, references, citings, index terms

We present a view of hyperdocuments in which each document encodes its own browsing semantics in its links. This requires a mental shift in how a hyperdocument is thought of abstractly. Instead of treating the links of a document as defining a static directed graph, they are thought of as defining an abstract program, termed the links-automaton of the document. A branching temporal logic notation, termed HTL*, is introduced for specifying properties a document should exhibi ...

Keywords: Petri nets, browsing semantics, hypermedia, hypertext, model checking, temporal logic

5 Databases and object-oriented technology: Object oriented programming: looking ahead to the year 2000
Richard C. Holt, Terry Stanhope, George Lausman
October 1991 **Proceedings of the 1991 conference of the Centre for Advanced Studies on Collaborative research CASCON '91**
Publisher: IBM Press
Full text available: 📄 pdf(1.78 MB)   Additional Information: full citation, abstract, references, citings

This paper examines the strategic importance of object oriented programming, looking ahead to the year 2000. It also surveys the coming impact of the more general area of object oriented computing, which includes analysis, design, databases, libraries, tools, standards, graphical user interfaces, and environments. A model of the software industry called the "software fountain" is used to explain how these developments are likely to impact the various parts of the industry. A discussion is presen ...

6 Community tech: A persistent chat space for work groups: the design, evaluation and deployment of loops
Thomas Erickson, Wendy A. Kellogg, Mark Laff, Jeremy Sussman, Tracee Vetting Wolf, Christine A. Halverson, Denise Edwards
June 2006 **Proceedings of the 6th ACM conference on Designing Interactive systems DIS '06**
Publisher: ACM Press
Full text available: 📄 pdf(402.49 KB)   Additional Information: full citation, abstract, references, index terms

Loops is a text-based computer mediated communication system aimed at small- to

medium-sized corporate work groups. We begin by discussing the goals of the system and the rationale behind its design, particularly its treatment of non-conversational text. Next we describe its realization in an implemented system, and discuss how an early working version of the system was 'group tested,' and the changes that lead to. We then discuss its deployment within our organization, and provide examples of ho ...

Keywords: CMC, CSCW, IM, awareness, chat, conversation, design, instant messaging, online environments, social proxy

7   On the notion of inheritance

Antero Taivalsaari
September 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 3
Publisher: ACM Press

Full text available: ▣ pdf(609.81 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

One of the most intriguing—and at the same time most problematic—notions in object-oriented programing is inheritance. Inheritance is commonly regarded as the feature that distinguishes object-oriented programming from other modern programming paradigms, but researchers rarely agree on its meaning and usage. Yet inheritance of often hailed as a solution to many problems hampering software development, and many of the alleged benefits of object-oriented programm ...

Keywords: delegation, incremental modification, inheritance, language constructs, object-oriented programming, programming languages

8   Technique for automatically correcting words in text

Karen Kukich
December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4
Publisher: ACM Press

Full text available: ▣ pdf(6.23 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

9   Layered media multicast control (LMMC): rate allocation and partitioning

Homayoun Yousefi'zadeh, Hamid Jafarkhani, Amir Habibi
June 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 3
Publisher: IEEE Press

Full text available: ▣ pdf(638.50 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The objective of layering techniques of distributing multimedia traffic over multicast IP networks is to effectively cope with the challenges in continuous media applications. The challenges include heterogeneity, fairness, real-time constraints, and quality of service.

We study the problem of rate allocation and receiver partitioning in layered and replicated media systems. We formulate an optimization problem aimed at maximizing a close approximation of the so-called max-min fairness metric su ...

Keywords: Fairness extrapolation, heterogeneity, layered media, multicast IP networks, optimality, rate allocation, receiver partitioning, replicated media

10 Using statecharts to model hypertext

Yi Zheng, Man-Chi Pong
December 1993 **Proceedings of the ACM conference on Hypertext ECHT '92**
Publisher: ACM Press
Full text available: pdf(761.60 KB)   Additional Information: full citation, references, citings, index terms

11 Design strategies for scenario-based hypermedia: description of its structure, dynamics, and style

Ryuichi Ogawa, Eiichiro Tanaka, Daigo Taguchi, Komei Harada
December 1993 **Proceedings of the ACM conference on Hypertext ECHT '92**
Publisher: ACM Press
Full text available: pdf(955.07 KB)   Additional Information: full citation, references, citings, index terms

12 Class management for software communities

Simon Gibbs, Eduardo Casais, Oscar Nierstrasz, X. Pintado, Dennis Tsichritzis
September 1990 **Communications of the ACM**, Volume 33 Issue 9
Publisher: ACM Press
Full text available: pdf(2.01 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Object-oriented programming may engender an approach to software development characterized by the large-scale reuse of object classes. Large-scale reuse is the use of a class not just by its original developers, but by other developers who may be from other organizations, and may use the classes over a long period of time. Our hypothesis is that the successful dissemination and reuse of classes requires a well-organized community of developers who are ready to share ideas, methods, tools an ...

13 Inferring binary trust relationships in Web-based social networks

Jennifer Golbeck, James Hendler
November 2006 **ACM Transactions on Internet Technology (TOIT)**, Volume 6 Issue 4
Publisher: ACM Press
Full text available: pdf(1.36 MB)   Additional Information: full citation, abstract, references, index terms

The growth of Web-based social networking and the properties of those networks have created great potential for producing intelligent software that integrates a user's social network and preferences. Our research looks particularly at assigning trust in Web-based social networks and investigates how trust information can be mined and integrated into applications. This article introduces a definition of trust suitable for use in Web-based social networks with a discussion of the properties that w ...

Keywords: Social networks, online communities, semantic Web, small worlds, trust

14 Technical papers: software maintenance: Concern graphs: finding and describing

concerns using structural program dependencies

Martin P. Robillard, Gail C. Murphy

May 2002 **Proceedings of the 24th International Conference on Software Engineering ICSE '02**

Publisher: ACM Press

Full text available: pdf(1.35 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Many maintenance tasks address concerns, or features, that are not well modularized in the source code comprising a system. Existing approaches available to help software developers locate and manage scattered concerns use a representation based on lines of source code, complicating the analysis of the concerns. In this paper, we introduce the Concern Graph representation that abstracts the implementation details of a concern and makes explicit the relationships between different parts of the co ...

15 The moment in hypertext: a brief lexicon of time

Marjorie C. Luesebrink

May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems HYPERTEXT '98**

Publisher: ACM Press

Full text available: pdf(1.00 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

16 ABC: a hypermedia system for artifact-based collaboration

John B. Smith, F. Donelson Smith

September 1991 **Proceedings of the third annual ACM conference on Hypertext HYPERTEXT '91**

Publisher: ACM Press

Full text available: pdf(947.25 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

17 Dynamic hypertext catalogues: helping users to help themselves

Maria Milosavljevic, Jon Oberlander

May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems HYPERTEXT '98**

Publisher: ACM Press

Full text available: pdf(1.21 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

18 Scholarly hypertext: self-represented complexity

David Kolb

April 1997 **Proceedings of the eighth ACM conference on Hypertext HYPERTEXT '97**

Publisher: ACM Press

Full text available: pdf(992.95 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: argument, hypertext rhetoric, scholarship, self-representation, typed links, typed nodes

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